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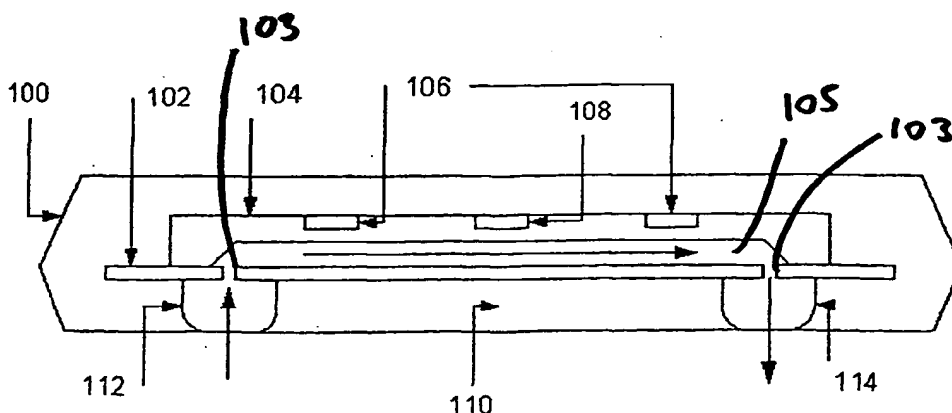
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(54) Title: CALORIMETRIC FLOW METER



(57) Abstract: An encapsulated calorimetric flow meter according to the present invention comprises an integrated circuit (104) mounted on a lead frame (102). The integrated circuit has a channel (105) provided in its lower face, the channel being aligned with two holes (103) provided in the lead frame, the holes coinciding with the ends of the channel (105). There are further slots (111) in the lead frame (102) alongside the integrated circuit to thermally isolate it from the rest of the lead frame (102), which acts as a heat sink to keep the entry and exit fluid at ambient temperature. The flow meter is manufactured by mounting the integrated circuit (104) on to a suitable lead frame (102). The assembly of integrated circuit (104) and lead frame (102) is then inverted and blobs of gel (112, 114) are then deposited onto the lead frame (102) covering the holes (103). The assembly is then inserted into a mould (100) and encapsulated within a suitable mould compound. When the assembly is ejected from the mould cavity the gel can be removed and the holes (103) and the channel (105) exposed to facilitate fluid flow into, out of and along the channel (105).

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<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 601F 601P H01L		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 195 11 687 A (CMS MIKROSYSTEME GMBH CHEMNITZ) 2 October 1996 (1996-10-02) column 2, line 65 - column 3, line 55 figure 1	1-20
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A	US 6 395 585 B2 (BRANDL MANFRED) 28 May 2002 (2002-05-28) column 1, line 6 - line 10 column 1, line 35 - line 42 column 2, line 51 - column 3, line 2 figures 1-5	1-24
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 813 236 A (EUROP SEMICONDUCTOR ASSEMBLY E) 17 December 1997 (1997-12-17)  column 3, line 43 - column 4, line 18  figures 1-4</p> <p>-----</p>	21-23

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Information on patent family members

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